

P. Gombel

CRF Errors Corrected by the STIC Systems Branch

22
CRF Processing Date:

3/25/2003

Edited by:

Verified by:

M (STIC staff)

Serial Number:

09/627,896B

Changed a file from non-ASCII to ASCII

ENTERED

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____.

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____.

Inserted mandatory headings, specifically: <2207 globally

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

Other:

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/627,896B

DATE: 03/25/2003
TIME: 09:56:16

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\03252003\I627896B.raw

3 <110> APPLICANT: CO, MAN SUNG
 4 VASQUEZ, MAXIMILIANO
 5 CARRERO, BEATRIZ
 6 CELNIKER, ABBIE CHERYL
 7 COLLINS, MARY
 8 GOLDMAN, SAMUEL
 9 GRAY, GARY S.
 10 KNIGHT, ANDREA
 11 O'HARA, DENISE
 12 RUP, BONITA
 13 VELDMAN, GEERTRUIDA M.
 15 <120> TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7-2 AND METHODS
 16 OF TREATMENT THEREWITH
 18 <130> FILE REFERENCE: 08702.0081-01000
 20 <140> CURRENT APPLICATION NUMBER: 09/627,896B
 21 <141> CURRENT FILING DATE: 2000-07-27
 23 <160> NUMBER OF SEQ ID NOS: 32
 25 <170> SOFTWARE: PatentIn Ver. 2.1
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 405
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Murine sp.
 32 <220> FEATURE:
 33 <221> NAME/KEY: CDS
 34 <222> LOCATION: (1)..(405)
 35 <223> OTHER INFORMATION: Anti-B7-2 heavy chain
 37 <400> SEQUENCE: 1
 38 atg ggt tgg aac tgt atc atc ttc ttt ctg gtt aca aca gct aca ggt 48
 39 Met Gly Trp Asn Cys Ile Ile Phe Phe Leu Val Thr Thr Ala Thr Gly
 40 1 5 10 15
 42 gtg cac tcc cag gtc cag ctg cag cag tct ggg cct gag ctg gtg agg 96
 43 Val His Ser Gln Val Gln Leu Gln Ser Gly Pro Glu Leu Val Arg
 44 20 25 30
 47 cct ggg gaa tca gtg aag att tcc tgc aag ggt tcc ggc tac aca ttc 144
 48 Pro Gly Glu Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe
 49 35 40 45
 51 act gat tat gct ata cag tgg gtg aag cag agt cat gca aag agt cta 192
 52 Thr Asp Tyr Ala Ile Gln Trp Val Lys Gln Ser His Ala Lys Ser Leu
 53 50 55 60
 55 gag tgg att gga gtt att aat att tac tat gat aat aca aac tac aac 240
 56 Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn
 57 65 70 75 80
 59 cag aag ttt aag ggc aag aca atg act gta gac aaa tcc tcc agc 288

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Input Set : A:\PTO.AMC.txt
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60	Gln	Lys	Phe	Lys	Gly	Lys	Ala	Thr	Met	Thr	Val	Asp	Lys	Ser	Ser	Ser
61									85							95
63	aca	gcc	tat	atg	gaa	ctt	gcc	aga	ttg	aca	tct	gag	gat	tct	gcc	atc
64	Thr	Ala	Tyr	Met	Glu	Leu	Ala	Arg	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Ile
65									100							110
67	tat	tac	tgt	gca	aga	gcg	gcc	tgg	tat	atg	gac	tac	tgg	ggt	caa	gga
68	Tyr	Tyr	Cys	Ala	Arg	Ala	Ala	Trp	Tyr	Met	Asp	Tyr	Trp	Gly	Gln	Gly
69									115							125
71	acc	tca	gtc	acc	gtc	tcc	tca									405
72	Thr	Ser	Val	Thr	Val	Ser	Ser									
73									130							135
76	<210>	SEQ	ID	NO:	2											
77	<211>	LENGTH:	135													
78	<212>	TYPE:	PRT													
79	<213>	ORGANISM:	Murine	sp.												
81	<220>	FEATURE:														
82	<223>	OTHER INFORMATION:	Anti-B7-2	heavy chain												
84	<400>	SEQUENCE:	2													
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87	1					5				10						15
89	Val	His	Ser	Gln	Val	Gln	Leu	Gln	Gln	Ser	Gly	Pro	Glu	Leu	Val	Arg
90							20			25						30
92	Pro	Gly	Glu	Ser	Val	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Thr	Phe
93							35			40						45
95	Thr	Asp	Tyr	Ala	Ile	Gln	Trp	Val	Lys	Gln	Ser	His	Ala	Lys	Ser	Leu
96							50			55						60
98	Glu	Trp	Ile	Gly	Val	Ile	Asn	Ile	Tyr	Tyr	Asp	Asn	Thr	Asn	Tyr	Asn
99							65			70						80
101	Gln	Lys	Phe	Lys	Gly	Lys	Ala	Thr	Met	Thr	Val	Asp	Lys	Ser	Ser	Ser
102							85			90						95
104	Thr	Ala	Tyr	Met	Glu	Leu	Ala	Arg	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Ile
105							100			105						110
107	Tyr	Tyr	Cys	Ala	Arg	Ala	Ala	Trp	Tyr	Met	Asp	Tyr	Trp	Gly	Gln	Gly
108							115			120						125
110	Thr	Ser	Val	Thr	Val	Ser	Ser									
111							130			135						
114	<210>	SEQ	ID	NO:	3											
115	<211>	LENGTH:	396													
116	<212>	TYPE:	DNA													
117	<213>	ORGANISM:	Murine	sp.												
119	<220>	FEATURE:														
120	<221>	NAME/KEY:	CDS													
121	<222>	LOCATION:	(1)..(396)													
122	<223>	OTHER INFORMATION:	Anti-B7-2	light chain												
124	<400>	SEQUENCE:	3													
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126	Met	Asp	Ser	Gln	Ala	Gln	Val	Leu	Ile	Leu	Leu	Leu	Leu	Trp	Val	Ser
127	1						5			10						15
132	gtt	acc	tgt	ggg	gac	att	gtg	ctg	tca	cag	tct	cca	tcc	tcc	ctg	gct

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Input Set : A:\PTO.AMC.txt

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133	Gly	Thr	Cys	Gly	Asp	Ile	Val	Leu	Ser	Gln	Ser	Pro	Ser	Ser	Leu	Ala	
134				20				25				30					
136	gtg	tca	gca	gga	gag	aag	gtc	act	atg	agc	tgc	aaa	tcc	agt	cag	agt	144
137	Val	Ser	Ala	Gly	Glu	Lys	Val	Thr	Met	Ser	Cys	Lys	Ser	Ser	Gln	Ser	
138								35			40			45			
140	ctg	ctc	aac	agt	aga	acc	cga	gag	aac	tac	ttg	gct	tgg	tac	cag	cag	192
141	Leu	Leu	Asn	Ser	Arg	Thr	Arg	Glu	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	
142								50			55			60			
144	aaa	cca	ggg	cag	tct	cct	aaa	ctg	ctg	atc	tac	tgg	gca	tcc	act	agg	240
145	Lys	Pro	Gly	Gln	Ser	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	
146								65			70			75		80	
148	gaa	tct	ggg	gtc	cct	gat	cgc	ttc	aca	ggc	agt	gga	tct	ggg	aca	gat	288
149	Glu	Ser	Gly	Val	Pro	Asp	Arg	Phe	Thr	Gly	Ser	Gly	Ser	Gly	Thr	Asp	
150								85			90			95			
152	ttc	act	ctc	acc	atc	agc	agt	gtg	cag	gct	gaa	gac	ctg	gca	gtt	tat	336
153	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Val	Gln	Ala	Glu	Asp	Leu	Ala	Val	Tyr	
154								100			105			110			
156	tac	tgc	acg	caa	tct	tat	aat	ctt	acg	ttc	gga	ggg	ggg	acc	aag		384
157	Tyr	Cys	Thr	Gln	Ser	Tyr	Asn	Leu	Tyr	Thr	Phe	Gly	Gly	Gly	Thr	Lys	
158								115			120			125			
160	ctg	gaa	ata	aaa													396
161	Leu	Glu	Ile	Lys													
162				130													
165	<210>	SEQ	ID	NO:	4												
166	<211>	LENGTH:	132														
167	<212>	TYPE:	PRT														
168	<213>	ORGANISM:	Murine	sp.													
170	<220>	FEATURE:															
171	<223>	OTHER INFORMATION:	Anti-B7-2	light chain													
173	<400>	SEQUENCE:	4														
174	Met	Asp	Ser	Gln	Ala	Gln	Val	Leu	Ile	Leu	Leu	Leu	Leu	Trp	Val	Ser	
175					1			5			10				15		
177	Gly	Thr	Cys	Gly	Asp	Ile	Val	Leu	Ser	Gln	Ser	Pro	Ser	Ser	Leu	Ala	
178								20			25			30			
180	Val	Ser	Ala	Gly	Glu	Lys	Val	Thr	Met	Ser	Cys	Lys	Ser	Ser	Gln	Ser	
181								35			40			45			
183	Leu	Leu	Asn	Ser	Arg	Thr	Arg	Glu	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	
184								50			55			60			
186	Lys	Pro	Gly	Gln	Ser	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	
187								65			70			75		80	
189	Glu	Ser	Gly	Val	Pro	Asp	Arg	Phe	Thr	Gly	Ser	Gly	Ser	Gly	Thr	Asp	
190								85			90			95			
192	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Val	Gln	Ala	Glu	Asp	Leu	Ala	Val	Tyr	
193								100			105			110			
195	Tyr	Cys	Thr	Gln	Ser	Tyr	Asn	Leu	Tyr	Thr	Phe	Gly	Gly	Gly	Thr	Lys	
196								115			120			125			
198	Leu	Glu	Ile	Lys													
199				130													
202	<210>	SEQ	ID	NO:	5												

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TIME: 09:56:16

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\03252003\I627896B.raw

203 <211> LENGTH: 405
 204 <212> TYPE: DNA
 205 <213> ORGANISM: Artificial Sequence
 207 <220> FEATURE:
 208 <223> OTHER INFORMATION: Description of Artificial Sequence: Humanized
 209 murine anti-human B7-2 heavy chain
 211 <220> FEATURE:
 212 <221> NAME/KEY: CDS
 213 <222> LOCATION: (1)..(405)
 215 <400> SEQUENCE: 5
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 219 Met Gly Trp Asn Cys Ile Ile Phe Phe Leu Val Thr Thr Ala Thr Gly
 220 1 5 10 15
 222 gtg cac tcc cag gtc cag ctg gtg cag tct ggg gct gag gtg aag aag 96
 223 Val His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
 224 20 25 30
 226 cct ggg agc tca gtg aag gtg tcc tgc aaa gct tcc ggc tac aca ttc 144
 227 Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe
 228 35 40 45
 230 act gat tat gct ata cag tgg gtg aga cag gct cct gga cag ggc ctc 192
 231 Thr Asp Tyr Ala Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
 232 50 55 60
 234 gag tgg att gga gtt att aat att tac tat gat aat aca aac tac aac 240
 235 Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn
 236 65 70 75 80
 238 cag aag ttt aag ggc aag gcc aca atg act gta gac aag tcg acg agc 288
 239 Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Thr Ser
 240 85 90 95
 242 aca gcc tat atg gaa ctt agt tct ttg aga tct gag gat acg gcc gtt 336
 243 Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
 244 100 105 110
 246 tat tac tgt gca aga gcg gcc tgg tat atg gac tac tgg ggt caa ggt 384
 247 Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly
 248 115 120 125
 250 acc ctt gtc acc gtc tcc tca 405
 251 Thr Leu Val Thr Val Ser Ser
 252 130 135
 255 <210> SEQ ID NO: 6
 256 <211> LENGTH: 135
 257 <212> TYPE: PRT
 258 <213> ORGANISM: Artificial Sequence
 260 <220> FEATURE:
 261 <223> OTHER INFORMATION: Description of Artificial Sequence: Humanized
 262 murine anti-human B7-2 heavy chain
 264 <400> SEQUENCE: 6
 265 Met Gly Trp Asn Cys Ile Ile Phe Phe Leu Val Thr Thr Ala Thr Gly
 266 1 5 10 15
 268 Val His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
 269 20 25 30

RAW SEQUENCE LISTING
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Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\03252003\I627896B.raw

271 Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe
272 35 40 45
274 Thr Asp Tyr Ala Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
275 50 55 60
277 Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn
278 65 70 75 80
280 Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Thr Ser
281 85 90 95
283 Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
284 100 105 110
286 Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly
287 115 120 125
289 Thr Leu Val Thr Val Ser Ser
290 130 135
293 <210> SEQ ID NO: 7
294 <211> LENGTH: 396
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Description of Artificial Sequence: Humanized
300 murine anti-human B7-2 light chain
302 <220> FEATURE:
303 <221> NAME/KEY: CDS
304 <222> LOCATION: (1)..(396)
306 <400> SEQUENCE: 7
307 atg gat tca cag gcc cag gtt ctt ata ttg ctg ctg cta tgg gta tct 48
308 Met Asp Ser Gln Ala Gln Val Leu Ile Leu Leu Leu Trp Val Ser
309 1 5 10 15
311 ggc acc tgt ggg gac att gtg ctg aca cag tct cca gat tcc ctg gct 96
312 Gly Thr Cys Gly Asp Ile Val Leu Thr Gln Ser Pro Asp Ser Leu Ala
313 20 25 30
315 gta agc tta gga gag agg gcc act att agc tgc aaa tcc agt cag agt 144
316 Val Ser Leu Gly Glu Arg Ala Thr Ile Ser Cys Lys Ser Ser Gln Ser
317 35 40 45
319 ctg ctc aac agt aga acc cga gag aac tac ttg gct tgg tac cag cag 192
320 Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln
321 50 55 60
323 aaa cca ggg cag cct cct aaa ctg ctg atc tac tgg gca tcc act agg 240
324 Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
325 65 70 75 80
329 gaa tct ggg gtc cct gat cgc ttc agt ggc agt gga tct ggg aca gat 288
330 Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
331 85 90 95
333 ttc act ctc acc atc agc agt ctg cag gct gaa gac gtg gca gtt tat 336
334 Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr
335 100 105 110
337 tac tgc acg caa tct tat aat ctt tac acg ttc gga cag ggg acc aag 384
338 Tyr Cys Thr Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gln Gly Thr Lys
339 115 120 125

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/627,896B

DATE: 03/25/2003

TIME: 09:56:17

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03252003\I627896B.raw

L:883 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 23